PATENT COOPERATION TREATY

To: see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORIT (PCT Rule 43 bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)												
									Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below			
								International application No. International filing of PCT/JP2004/008642 11.06.2004			International filing date (i day/month/year)	Priority date (day/month/year) 13.06.2003			
		sification (IPC) or 81/519, A61P3	both national classification 7/00	and IPC												
	SUNTORY	PHARMA CO	D., LTD.													
☐ E ☐ E ☐ E ☐ E ☐ E ☐ E ☐ E ☐ E ☐ E ☐ E	en opinion o applicant cho national Bur not be so co s opinion is, nit to the IPI	Lack of unity of Reasoned state applicability; of Certain docur Certain defect Certain obsertions. ION International profit the Internation poses an Authoreau under Ruleinsidered. as provided ab EA a written reputate of mailing	ment of opinion with regot invention tement under Rule 43bi. Sitations and explanation nents cited to in the international approximation on the international eliminary examination is nal Preliminary Examining the other than this one to be 66.1bis(b) that written cove, considered to be a loty together, where approximation is not to the cove, considered to be a loty together, where approximation is not the cove, considered to be a loty together, where approximation	s.1(a)(i) with regards supporting such plication nal application made, this opinion of the IPEA and opinions of this Interprise.	entive step and industrial applicability d to novelty, inventive step or industrial statement will usually be considered to be a "). However, this does not apply where the chosen IPEA has notifed the ernational Searching Authority the IPEA, the applicant is invited to dments, before the expiration of three tion of 22 months from the priority date,											
	•	ns, see Form P ls, see notes to	CT/ISA/220. Form PCT/ISA/220.													
Name and	mailing addre	ss of the ISA:		Authorized Office	T											
	D-80298 N Tel. +49 8	Patent Office Munich 9 2399 - 0 Tx: 52 39 2399 - 4465	3656 epmu d	Baston, E	49 89 2399-8229											

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/008642

	Box N	o. I Basis of the opinion					
1.		With regard to the language , this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.					
	la	nis opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).					
2.		With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:						
		a sequence listing					
		table(s) related to the sequence listing					
b. format of material:		nat of material:					
		in written format					
		in computer readable form					
	c. time	of filing/furnishing:					
		contained in the international application as filed.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority for the purposes of search.					
3.	ha Co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as oppropriate, were furnished.					
4.	4. Additional comments:						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/008642

	Box No. II Priority									
1.	. The following document has not been furnished:									
	☐ copy of the earlier application whose priority has been claimed (Rule 43 <i>bis</i> .1 and 66.7(a)).									
	□ translation of the earlier application whose priority has been claimed (Rule 43 <i>bis</i> .1 and 66.7(b)).									b)).
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.									
2.	☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.									
3.	3. Additional observations, if necessary:									
_										
_		No. V estrial a	Reasoned state applicability; citate						entive step o	r
1.	State	ement								
	Nove	elty (N)		Yes: No:	Claims Claims	1-11				
	Inventive step (IS)		Yes:	Yes: Claims						
			No:	No: Claims 1-11						
	Industrial applicability (IA)		Yes:		1-11	1-11				
				No:	Claims					
2.	Citat	tions ar	nd explanations							
	see separate sheet									
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	Pov	No. VI	Certain docum	onto oitod	-	· · · · · · · · · · · · · · · · · · ·				
_			· · · · · · · · · · · · · · · · · · ·							
1.	. Certain published documents (Rules 43bis.1 and 70.10)									
	and / or									

Form PCT/IPEA/237 (January 2004)

see form 210

2. Non-written disclosures (Rules 43bis.1 and 70.9)

To section V

The following documents were cited in the search report and were considered for the examination of the present application:

- D1: WO 03/097645 A (ALONSO-ALIJA CRISTINA; BAYER HEALTHCARE AG (DE); BISCHOFF HILMAR (DE)) 27 November 2003 (2003-11-27)
- D2: WO 03/011262 A (NIEWOEHNER ULRICH; BAYER AG (DE); BISCHOFF ERWIN (DE); RAHBAR AFSSANE) 13 February 2003 (2003-02-13)
- D3: WO 02/098880 A (ALONSO-ALIJA CRISTINA; NIEWOEHNER ULRICH (DE); BAYER AG (DE); BISCHOF) 12 December 2002 (2002-12-12)

The present application deals with imidazotriazinones which are considered to be suitable for the treatment of allergic or inflammatory diseases due to inhibition of phosphodiesterase isoform 7 (PDE 7). The compounds are more precisely defined by a cycloalkyl or a tert-butyl group for the substituent R¹. In view of this structural requirement novelty is acknowledged (Art. 33(2) PCT).

No document of the prior art proposes this structural feature together with PDE7 inhibiting properties, thus resulting in potentially active antiinflammatory agents. However, the involvement of an inventive step cannot be acknowledged (Art. 33(3) PCT), since claim 1 also includes "substituted analogs", thus extending the scope of protection to those congeners which inevitably cannot represent a solution to the problem underlying the application.

Claim 11 is not acceptable in view of Art. 6 PCT. The expression PDE 7 inhibitor is not suitable to define subject-matter of a narrower scope, since any compound might reveal PDE7 inhibiting properties depending on concentration and assay conditions.